

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-14 (cancelled)

15. (new) An emission control system of an internal combustion engine, comprising:

an emission control device disposed in an exhaust passage of the internal combustion engine; and

a controller determining oxidant storage in said emission control device, said determined oxidant storage based on a shut down state; and during starting, adjusting a fuel injection amount into the internal combustion engine based on said determined oxidant storage to take into account a change in oxidant storage during said shut down state.

16. (new) The system of claim 15 wherein said determined oxidant storage is based on a shut down time.

17. (new) The system of claim 15 wherein said determined oxidant storage is based on temperature of said emission control device.

18. (new) The system of claim 15 wherein said determined oxidant storage amount is based on a time constant.

19. (new) The system of claim 15 wherein shut down state includes a vehicle shut down state.

20. (new) The system of claim 19 wherein said starting includes vehicle starting.

21. (new) The system of claim 20 wherein said determined oxidant storage is based on an oxidant state before the vehicle was turned off.

22. (new) The system of claim 15 wherein said determined oxidant storage is based on an oxidant state before shut down.

23. (new) An emission control system of an internal combustion engine, comprising:

an emission control device disposed in an exhaust passage of the internal combustion engine; and

a controller determining an oxidant storage amount in said emission control device, said determined oxidant storage amount based on a shut down state time and temperature of said emission control device; and adjusting a fuel injection amount into the internal combustion engine based on said determined oxidant storage during starting.

24. (new) The system of claim 23 wherein said determined oxidant storage amount is further based on a time constant.

25. (new) The system of claim 23 wherein shut down state includes a vehicle shut down state.

26. (new) The system of claim 25 wherein said starting includes vehicle starting.

27. (new) The system of claim 26 wherein said determined oxidant storage amount is based on an oxidant state before the vehicle was turned off.

28. (new) The system of claim 23 wherein said determined oxidant storage amount is based on an oxidant state before shut down.

29. (new) An emission control system of an internal combustion engine, comprising:

an emission control device disposed in an exhaust passage of the internal combustion engine; and

a controller determining an initial oxidant state of said emission control device, said initial oxidant state based on an oxidant state before shut down; and adjusting a fuel injection amount into the internal combustion engine based on said initial oxidant state during starting